

ECOLOGY AND ENVIRONMENT, INC.

FIELD INVESTIGATION TEAM

SITE INSPECTION PLAN

US EPA RECORDS CENTER REGION 5



498084

A. GENERAL INFORMATION

SITE: Ethyl Corporation

TDD NO.: F05-8703-032

LOCATION: 1600 W. 8 Mile Road

U.S. EPA NO.: M10041803123

Ferndale, MI

SSID NO.: _____

Oakland County

WSTS NO.: FM10727

PLAN PREPARED BY: Mike Feltes

DATE: 12/30/87

APPROVED BY: _____

DATE: _____

OBJECTIVE (including description of work to be performed): To conduct a site inspection including the collecting of soil/sediment samples and on-site monitoring well samples.

DESIRED REPORT FORM: SI REPORT (2070-13) ☒ HRS REPORT ☒

OTHER (EXPLAIN) None

PROPOSED DATE OF INVESTIGATION: To be determined

BACKGROUND REVIEW: Complete: _____ Preliminary: ☒

HRS PRELIMINARY SCORE OF ROUTES: GW — SW — AIR —
(NO FIELD WORK)

DIRECT CONTACT — FIRE AND EXPLOSION —

TOTAL PRELIMINARY HRS SCORE VALUE (NO FIELD WORK) _____

PROJECTED HRS SCORE: (WITH FIELD WORK) GW 0 SW 0 AIR 0

DIRECT CONTACT 0 FIRE AND EXPLOSION 0

TOTAL PROJECTED HRS SCORE 0

IF NO SAMPLING, EXPLAIN ON PAGE 3.

INSPECTION PRIORITY (BASED ON PROJECTED HRS SCORE): LOW: ☒ MEDIUM: _____ HIGH: _____

B. SITE/WASTE CHARACTERISTICS

WASTE TYPE(S): Liquid ☒ Solid ☒ Sludge ☒ Gas _____

CHARACTERISTIC(S): Corrosive _____ Ignitable _____ Radioactive _____ Volatile _____

Toxic _____ Reactive _____ Unknown ☒ Other (Name) _____

FACILITY DESCRIPTION: This site was once a motor fuel 1st Facility.
At one time the site was a motor fuel research laboratory. The site
is located on 8 Mile Road between Rosewood Avenue and Ltuernots Avenue.

Principal Disposal Method (type and location): Random burying of unknown types
and quantities of chemicals in hand-dug sand pits from 1940 to mid 1980's.

Unusual Features (dike integrity, power lines, terrain, etc.): Overhead wires
prohibit accurate magnetometry surveys.

Status: (active, inactive, unknown) The site is for sale, as of 3/14/86.
73 underground tanks were removed in March, 1985. Two cylinders
of aluminum borohydride were dug up and detonated on-site in May
of 1984. Three underground facility heating oil tanks are still in place.
The site is included on the Michigan ACT 307 list as of March 30, 1987.

History: (worker or non-worker injury; complaints from public; previous agency
action): Monitoring well sampling was performed in December, 1985; three
volatile organic compounds were detected at the site. They were:
Toluene, Chloroform and Tetrahydrofuran. 1985 magnetometry
survey proved inconclusive due to overhead wire interference.
The USEPA designated the site as Hotline Case No. 476 in 1985,
following an anonymous hotline complaint alleging illegal dumping of hazardous
material; sometime in 1980, Ethyl Corporation buried drums of
tetraethyllead and covered them with asphalt, beneath a present parking lot.
The complainant was worried that a potential site purchaser would never know
that toxic chemicals are buried on-site. Soil gas testing performed Oct., 1986.

C. HAZARD EVALUATION

(Use Hazard Evaluation of Chemicals sheets for specific or representative chemicals
present.):

<u>Toluene</u>	} Types and quantities are unknown
<u>Chloroform</u>	
<u>Tetrahydrofuran</u>	
<u>Unknown Solvents</u>	
<u>Unknown Volatile Organic Chemicals</u>	
<u>Various Acids, Bases and Heavy Metals</u>	

LEVEL OF PROTECTION: A ___ B ___ C ___ D ✓

MODIFICATIONS: Enter site in Level D; possible upgrade to Level C
if monitoring equipment measures an increased hazard.

SITE SAFETY PLAN ON FILE AT E & E: YES ☐ NO ☒

D. FIELD WORK REQUIRED

PERIMETER ESTABLISHMENT: MAP/SKETCH ATTACHED? YES ☒ NO ☐

Perimeter Identified? YES ☒ NO ☐

Zone(s) of Contamination Identified? YES ☐ NO ☒

Geophysical Work: YES ☐ NO ☒

Type: Magnetometry ☐ Seismic Refraction ☐ GPR ☐ Resistivity ☐ Other ☐

Comments: Overhead high tension wires inhibit accurate magnetometry readings.

Drilling: YES ☐ NO ☒

Well Location Identified: YES ☐ NO ☒

Drill Plan/Well Installation Plan Attached: YES ☐ NO ☒

Sampling Required: YES ☒ NO ☐

Type: GW ☒ SW ☐ Air ☐ Soil ☒ Waste ☐ Other ☐

Sampling Locations Identified: YES ☐ NO ☒

SUMMARY OF SAMPLING PROCEDURES: (Special Equipment, Facilities, or Procedures)

soil samples will be taken to determine waste characteristics.
monitoring well samples will be taken to determine the type
and extent of groundwater contamination.

E. ANALYTICAL SERVICES REQUIRED

RAS ☒

SAS ☐

CRL ☐

F. QAPP

REQUIRED: YES ☐ NO ☒

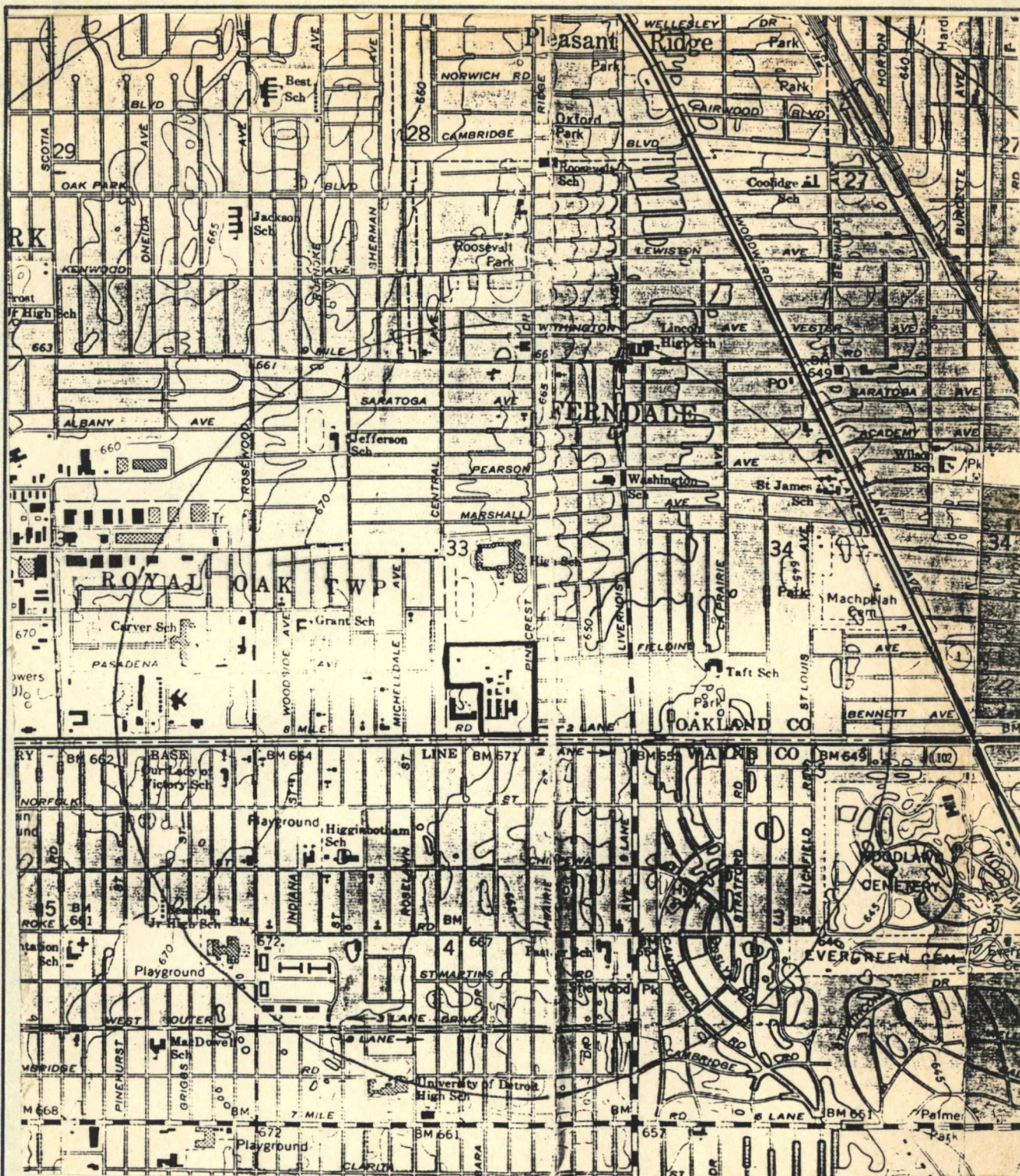
IF NO, EXPLAIN: NA

G. SI WORK TEAM SIZE/LIMITATION

<u>TEAM MEMBER</u>	<u>DISCIPLINE</u>	<u>RESPONSIBILITY</u>
To Be Arranged		Team Leader
"		Site Safety Officer
"		Sampler
"		Team Member

WORK LIMITATIONS (Time of day, etc.): Work in day light hours only, monitor for heat/cold stresses, maintain the buddy system at all times.

COMMENTS: Site scores "0" for groundwater route due to the fact that there are no private or residential well logs in MDNR files for the entire 3-mile radius, all water comes from Lake Huron. "0" for surface water route is due to the fact that there is no surface water within the 3-mile radius of the site.



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE <i>One - Mile Radius</i>	FIGURE #
SITE <i>Ethyl Corporation</i>	SCALE <i>1:24000</i>
CITY <i>Ferndale</i> STATE <i>Michigan</i>	P.A.N. <i>FM10727</i>
SOURCE <i>USGS 7.5" QUAD (ROYAL OAK QUADRANGLE)</i>	DATE <i>12/30/87</i> REVISED



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

230 SOUTH DEARBORN ST.

CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF

5HR-11

Mr. James C. Forney
Site Assessment Unit
Michigan Department of Natural Resources
P.O. Box 30028
Stevens Building, 8th Floor
Lansing, Michigan 48909

Site Name: Ethyl Corporation

Location: Ferndale, Michigan

Identification No: MI D04/803123

Date: 12/29/87

Dear MR. Forney

Attached is a copy of the site inspection work plan which has been prepared for the site listed above. This document is considered to be draft and subject to changes and modifications based on actual conditions which may be encountered at the site.

Because this is considered to be a draft document, it should be for official use only and should not be distributed outside of your agency without prior notification and approval of the U.S. Environmental Protection Agency.

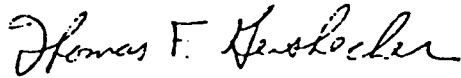
The document also contains a preliminary estimate of the Hazard Ranking System (HRS) score for the site and a projected score based on specific assumptions as addressed in the work plan. This information is considered predecisional. Therefore, it should not be released. Your field and district staff especially should be made aware of the predecisional nature of this score, the legal implications of releasing it relative to the National Priorities List (NPL) candidacy process, and therefore the need not to release any score. If you have any questions concerning release of this information, please contact Ms. Jeanne Griffin, of my staff, at (312) 886-3007.

-If you have any comments on the work plan itself, please contact Mr. Charles Castle, of my staff, at (312) 886-5892, within eight calendar days. If we do not receive any comments written or verbal from you, then we will assume that the work plan is acceptable.

Please note that site inspections are carried out under CERCLA to determine if a site will make the NPL. Thus, extra sampling or other activities that serve only a State purpose should not be requested. We welcome suggestions based on the knowledge of you and your staff that will make for a better site inspection for NPL candidacy purposes.

Please talk with Mr. Castle as early within the eight-day period as possible in order that your suggestions can be evaluated and modifications made.

Sincerely yours,

A handwritten signature in cursive script, reading "Thomas F. Geishecker".

Thomas F. Geishecker, Chief
Program Support Section

Enclosure